

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Fendly, Brian M.  
Phillips, Gail D.  
Scheuermann, Richard H.  
Uhr, Jonathan W.

(ii) TITLE OF INVENTION: Anti-ErbB2 Antibodies

(iii) NUMBER OF SEQUENCES: 9

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Genentech, Inc.  
(B) STREET: 1 DNA Way  
(C) CITY: South San Francisco  
(D) STATE: California  
(E) COUNTRY: USA  
(F) ZIP: 94080

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: WinPatin (Genentech)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/028811  
(B) FILING DATE: 10/18/96

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Lee, Wendy M.  
(B) REGISTRATION NUMBER: 40,378  
(C) REFERENCE/DOCKET NUMBER: P1053R1

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650/225-1994  
(B) TELEFAX: 650/952-9881

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166 amino acids  
(B) TYPE: Amino Acid  
(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Cys Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu  
1 5 10 15

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Leu | Asp | Met | Leu | Arg | His | Leu | Tyr | Gln | Gly | Cys | Gln | Val |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |
| Val | Gln | Gly | Asn | Leu | Glu | Leu | Thr | Tyr | Leu | Pro | Thr | Asn | Ala | Ser |
|     |     |     |     | 35  |     |     |     | 40  |     |     |     | 45  |     |     |
| Leu | Ser | Phe | Leu | Gln | Asp | Ile | Gln | Glu | Val | Gln | Gly | Tyr | Val | Leu |
|     |     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |
| Ile | Ala | His | Asn | Gln | Val | Arg | Gln | Val | Pro | Leu | Gln | Arg | Leu | Arg |
|     |     |     |     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |
| Ile | Val | Arg | Gly | Thr | Gln | Leu | Phe | Glu | Asp | Asn | Tyr | Ala | Leu | Ala |
|     |     |     |     | 80  |     |     |     | 85  |     |     |     | 90  |     |     |
| Val | Leu | Asp | Asn | Gly | Asp | Pro | Leu | Asn | Asn | Thr | Thr | Pro | Val | Thr |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     | 105 |     |     |
| Gly | Ala | Ser | Pro | Gly | Gly | Leu | Arg | Glu | Leu | Gln | Leu | Arg | Ser | Leu |
|     |     |     |     | 110 |     |     |     | 115 |     |     |     | 120 |     |     |
| Thr | Glu | Ile | Leu | Lys | Gly | Gly | Val | Leu | Ile | Gln | Arg | Asn | Pro | Gln |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     | 135 |     |     |
| Leu | Cys | Tyr | Gln | Asp | Thr | Ile | Leu | Trp | Lys | Asp | Ile | Phe | His | Lys |
|     |     |     |     | 140 |     |     |     | 145 |     |     |     | 150 |     |     |
| Asn | Asn | Gln | Leu | Ala | Leu | Thr | Leu | Ile | Asp | Thr | Asn | Arg | Ser | Arg |
|     |     |     |     | 155 |     |     |     | 160 |     |     |     | 165 |     |     |
| Ala |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 166 |     |     |     |     |     |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 32 amino acids
  - (B) TYPE: Amino Acid
  - (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Gln | Val | Cys | Thr | Gly | Thr | Asp | Met | Lys | Leu | Arg | Leu | Pro |
| 1   |     |     |     |     | 5   |     |     |     | 10  |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Pro | Glu | Thr | His | Leu | Asp | Met | Leu | Arg | His | Leu | Tyr | Gln |
|     |     |     |     |     | 20  |     |     |     | 25  |     |     |     | 30  |     |

Gly Cys  
32

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 59 amino acids
  - (B) TYPE: Amino Acid

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Glu | Cys | Arg | Val | Leu | Gln | Gly | Leu | Pro | Arg | Glu | Tyr | Val |
| 1   |     |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |
| Asn | Ala | Arg | His | Cys | Leu | Pro | Cys | His | Pro | Glu | Cys | Gln | Pro | Gln |
|     |     |     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |
| Asn | Gly | Ser | Val | Thr | Cys | Phe | Gly | Pro | Glu | Ala | Asp | Gln | Cys | Val |
|     |     |     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Cys | Ala | His | Tyr | Lys | Asp | Pro | Pro | Phe | Cys | Val | Ala | Arg |     |
|     |     |     |     |     | 50  |     |     |     | 55  |     |     |     |     | 59  |

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 65 amino acids  
(B) TYPE: Amino Acid  
(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Cys | His | Pro | Glu | Cys | Gln | Pro | Gln | Asn | Gly | Ser | Val | Thr |
| 1   |     |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |
| Cys | Phe | Gly | Pro | Glu | Ala | Asp | Gln | Cys | Val | Ala | Cys | Ala | His | Tyr |
|     |     |     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |
| Lys | Asp | Pro | Pro | Phe | Cys | Val | Ala | Arg | Cys | Pro | Ser | Gly | Val | Lys |
|     |     |     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |
| Pro | Asp | Leu | Ser | Tyr | Met | Pro | Ile | Trp | Lys | Phe | Pro | Asp | Glu | Glu |
|     |     |     |     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Ala | Cys | Gln | Pro |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 65  |     |     |     |     |     |     |     |     |     |     |

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 11 amino acids  
(B) TYPE: Amino Acid  
(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Asn | Ser | Ser | Met | Ile | Ser | Asn | Thr | Pro |
| 1   |     |     |     |     | 5   |     |     |     | 10  | 11  |

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 7 amino acids

- (B) TYPE: Amino Acid
- (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

His Gln Ser Leu Gly Thr Gln  
1                   5           7

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 8 amino acids
- (B) TYPE: Amino Acid
- (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

His Gln Asn Leu Ser Asp Gly Lys  
1                   5           8

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 8 amino acids
- (B) TYPE: Amino Acid
- (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

His Gln Asn Ile Ser Asp Gly Lys  
1                   5           8

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 8 amino acids
- (B) TYPE: Amino Acid
- (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Val Ile Ser Ser His Leu Gly Gln  
1                   5           8